

THE OUTCROP.

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W. F. FRANK,

Publisher and Proprietor.

WILMER, B.C., THURSDAY, DEC. 17, 1903.

Scientific Miscellany.

The separation of radium from pitchblende is a long and tedious process. The rare ore is first crushed, and the powder is roasted with carbonate of soda. After washing, the residue is treated with dilute sulphuric acid, the sulphates being then converted into carbonates by boiling with strong carbonate of soda solution. Radium sulphate, an exceedingly insoluble salt, is contained in the residue. The soluble sulphates are washed out and from the residue hydrochloric acid dissolves out polonium, actinium and other elements. Radium sulphate remains with some barium sulphate. These sulphates are converted into carbonates by boiling with carbonate of soda solution, and the carbonates are dissolved in hydrochloric acid, and precipitated again as sulphates by means of sulphuric acid. The sulphates are further purified and finally converted into chlorides. A ton of pitchblende yields about 15 pounds of the mixed chlorides of radium and barium, from which a small fraction of radium chloride is separated by crystallization.

The mysterious working of the divining or dowsing rod has been made a psychological problem by Prof. W. F. Barrett, an English investigator. He finds that the slight involuntary and unconscious movements so marked in some persons and so strikingly shown by the dowsing rod, can be cultivated, but that it is absurd to attribute the motion of the rod to a special stimulus from the presence of under ground water. He believes the success of many dowsers may be explained by a trained keenness in detecting surface signs of underground water or metallic ores. All successes, however, are not made clear by this nor by coincidence, and Prof. Barrett concludes that some persons have a mental power hitherto unnoticed—an extra extra-perceptive faculty that receives an impression when an object sought is approached. He suggests that the dowsing rod might be superseded by an apparatus for registering changes in the blood circulation of the susceptible person.

The systems of lines on the finger-tips remain unchanged through life, and so characteristic of the individual is each set that no duplicates have yet been found, although the police of Paris alone have preserved over a million imprints. Not long ago the only trace of a murderer found was a faint thumb impression on a window sash. Bertillon photographed and enlarged this, and it was compared with the recorded finger-prints until a duplicate was discovered, identifying the murderer.

In a new peat-fuel process lately exhibited at Charlton, Eng., the water is removed by mechanical and electrical means. The freshly-cut peat is packed into rotating cylinders, and fans beat out part of the moisture, while an electrical current is passed through the mass, heating it and aiding in expelling the water. The material is finally pressed into briquettes. The fuel is claimed to be economical, but nearly two pounds must be burned to give the effect of a pound of steam coal.

In tree-felling by electricity in French forests, only an eighth of the time of ordinary sawing is required. A platinum wire, made white-hot by the current, is used like a saw, and it cuts without dust, while the slight carbonization tends to preserve the wood.

A Glasgow museum is forming an important collection of railway material, intended to cover the period from the time the Romans brought over the system of stone roads between 60 and 70 different exhibits will be included.

The contested theory that pearls are due to a parasite in the oyster was first advanced by Filippi in 1852. Several recent observers have confirmed the view.

It is estimated that New York city alone has 150,000 persons who would be dead without the medical progress of the last 50 years.

Accumulating evidence proves that the moon is not the changeless body usually supposed. The Crater Linne, charted early in the last century as a deep crater four or five miles across, now appears as a white spot of varying size. Pickering supposes it to contain a frost deposit, which is partially melted during the lunar forenoon and again condensed as the day wanes. Hyginus N, near the centre of the disc, was not mapped until 1877, but has been a conspicuous object since then. Numerous craters contain variable dark spots. These darken soon after sunrise, in a variable way, and fade toward sunset, and the belief seems to be strengthening that they represent some kind of vegetation. It is suggested that sufficient water vapor and carbonic acid gas to support vegetation may be emitted from the small craterlets and cracks in the surface.

THE HOTEL WILMER.

Is a new building and is furnished throughout with all modern improvements.

The bar is supplied with the choicest brands of Wines, Liquors and Cigars.

THE TOURIST or Traveler who wanders into Wilmer, should always camp at the Hotel Wilmer.

Within its doors can be found beds that soothe the weary to dreamless sleep, drinks that calm the troubled soul, and food that no epicure could pass without sampling. If you want anything more see

GEORGE CHAMBERLAIN, Proprietor.

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Trains pass Golden:
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Steamers leave Golden for the Windermere at 4 a.m. Tuesdays and Fridays, returning Wednesdays and Saturdays. Stage for Windermere District leaves Golden at 8 o'clock Sundays and arrives in Golden at 15:30 on Fridays. Leaving Windermere every Thursday at 8 a.m. and arriving Monday at 17 p.m.

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If you want Groceries of the best quality that the market affords for your Christmas puddings and cakes we can provide you with everything you may possibly require at prices that will please the most economical housekeepers in this valley. We have selected our groceries carefully and they are all nice and fresh. All orders receive prompt and careful attention.

GET ON THE INSIDE OF AN UP-TO-DATE WINTER SUIT.

It does not cost any more to wear good clothes than poor ones. The only difference is where you do your purchasing. We are Right Here with the goods all the Time. If there is any thing you want in the Ready-Made Clothing Line, Hats, Caps, Neckties, or anything else you wear you can get it from us.

In fact we have now a Large Stock of most every Line you may mention.

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THE OUTCROP



Fellow Pilgrims All!

Should you in your wanderings about this mountain globe have an arduous quest in your solution to read a real live newspaper giving all the news of North East Kootenay, and for THE OUTCROP. This grandiose Print Palace is located in the heart of the most beautiful valley in North America, surrounded by wealthy ranchers and close to the finest white metal mines in the world. The Outcrop crops out in hundreds of places in the Western Hemisphere and the logic has been uncovered in the Southern, France, India, South Africa, Germany and Australia. It comes to the front every Thursday, and has never been raised by the sheriff. It works for the Trail Rider as well as the Abolition and chicken-fed capitalist. Its editor is poor, but sure to be a millionaire by being on the right side of all things; and believes the righteous should all go to Paradise and that hell should be dealt out according to the wickedness accomplished.

A High Grade Class of Job Printing is uncovered and is worked for the benefit of Humanity and the Editor.

Oldest and Most Reliable Newspaper in North East Kootenay.

Only Paper printed in the Rich Windermere Mining Division.

News while it is News given without fear or favor for \$2.00

Limit, 1,000,000 Copies--Avoid Rush.

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SEE OUR SOUTH WINDOW.

Chocolates and Bon Bons in fancy cartoons;
25c., 50c., 60c., 75c. and \$1 each.

Everything for your
Xmas. Cake and Pudding.

Terms Strictly Cash.

THE
Wilmer Mercantile
Company.

GEO. REHDER, - - - Manager.

Croppings

And still the beautiful does not fall.

The annual New Year's Eve dance in the Athalmer Hall is the next big event.

The Legislature has got the treasury fixed up and was to adjourn on Tuesday until after the holidays.

John Houston may have broke the Conservative party treasury, but he has not broke the Conservative Government according to recent reports.

A. R. Yates has decided to mark down the price of all his toys and clear them out early. Here is a chance to make the young happy at small cost.

Mrs. Macmillan, who has been ill in the hospital at Victoria for some weeks, is now much improved and will return to Valens next week, which her many friends will be pleased to learn.

Chas. Cartwright returned from Golden on Tuesday, where he met a brother of his, who arrived from Scotland and who has taken his ranch at Carbonate. During his absence he assisted Mr. James Brady survey the ranch.

Next Tuesday afternoon at 2 o'clock the children of Wilmer are asked to meet in the School house, where the gifts sent by Mrs. Hammond, of Toronto, to them will adorn a beautiful Christmas tree. Every child will be made happy.

If an election is brought on this winter local Liberals say that the vote here will be effected by spring and fall postponements of the Wilmer election. Why run the "shamrock" match in these parts, anyway? Moral—some fellow will lose a soft job.

About mid-night Tuesday considerable excitement was caused in Wilmer by the sight of a fire in the direction of Prof. W. Harrison's residence as it was known he was at the dance and Mrs. Harrison was alone with eight small children, and a rush was made down the hill. Fortunately, it proved not so serious as feared, as the fire was in the chicken

pen, where a stove was used for heating. The log pen and 24 Wyandotte chickens were burned. The reflection was seen plainly at Athalmer and caused worry among the dancers.

A man who never saw a railway train has been elected to the British Columbia Legislature. But the first thing he is likely to ask for will be a railway pass, and the second a railway subsidy. — Montreal Star. It's coming to B. C. in big bunches and we can't kick much.

Rev. Mr. E. St. G. Smyth will conduct divine service in Wilmer in the evening of the first Sunday of each month.

Property worth owning is worth insuring in the Canadian Fire Insurance Co. Apply to W. P. Evans, agent.

Rev. Fraser will conduct services every Sunday in Windermere at 11 a. m. at Athalmer at 3 p. m. and Wilmer at 7:30 p. m., excepting the first Sunday in each month, when he holds service at Galena.

Divine service is held every Sunday evening in St. Peter's Church, Windermere, at 7:00 p. m. All are welcome.

Success is the golden gown of an honest desire.

The first place to look for love is within thine own heart.

If you would practice honesty, practice with thyself first.

C.P.R. LANDS.

This Company now offers for sale lands along the coast of British Columbia in blocks of 100 acres and upwards.

These lands have been carefully selected and comprise some of the best agricultural and grazing land in the district. Prices from \$1.00 to \$10.00 per acre on easy terms, a cash payment of only \$100.00 on 100 acres of 1000 acres, and subsequent annual payments of \$100.00 each including interest.

For maps and terms apply to—

R. R. BRUCE,

Wilmer, B. C.

J. S. DENNIS,

Land Commissioner,

Calgary, Alberta.

NOTICE.

Parties cutting timber or wood on lands of this Company without authority will be prosecuted.

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Prepared to
Fill Orders
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of all Kinds

JAS. L. McKAY, Proprietor.

Chas. Cartwright, Agent, Athalmer, B. C.

TERMS, STRICTLY CASH TO ALL.

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The Peterborough Trading Company, WILMER, B. G.

Christmas Will Soon be Here Again!

And while it is early for Greetings we have in

Stock a lot of Goods that You will need in Sending Your Greetings.

Come and See our Useful gifts.

Poultry, Cranberries, Oysters, Finnin Haddie, Raisins, Nuts,
Peels of All Kinds, Apples, Dry Goods, Etc.